

## THE TRANSFORMATION GRAPH $G_{xyz}$ WHEN $xyz = + + -$

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### Abstract

The transformation graph  $G_{++-}$  of  $G$  is the graph with vertex set  $V(G) \cup E(G)$  in which the vertex  $x$  and  $y$  are joined by an edge if one of the following holds (i)  $x, y \in V(G)$  and  $x$  and  $y$  are adjacent in  $G$  (ii)  $x, y \in E(G)$  and  $x$  and  $y$  are adjacent in  $G$  (iii) One of  $x$  and  $y$  is in  $V(G)$  and the other is in  $E(G)$  and they are not incident in  $G$ . In this paper we are presenting degree, eccentricity, diameter, hamiltonicity and vertex independent number of  $G_{++-}$ .

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Key Words and Phrases : Transformation, Isomorphic graph, Hamiltonian graph, etc.